

1	PROCESSES	36	.Succeeding receiver advanced to filling position
1.1	.Battery grid pasting	37	DIVERSE FLUID CONTAINING PRESSURE FILLING SYSTEMS INVOLVING RECEIVER GAS CONTENT MODIFICATION
2	.Filling dispensers	38	.Tire inflation
3	..Aerosol or gas-charged type	39	.Filling means controlled by gas condition in receiver
4	.Gas or variation of gaseous condition in receiver	40	..Control by level in filled receiver
5	..With filling with fluent non-gaseous materials	41	...Air pump external to flow line
6	...Counter-pressure type	42	....Float controlled vacuum line cut-off
7	...With evacuation of container	43	.....Vacuum line vented to atmosphere
8	..Vacuum	44	.Gas and other material separating passage or chamber
9	.Plural materials	45	..Material returned to supply
10	.Bag filling	46	.System fluid used in seal or in valve or lift operation
11	.With material treatment	47	.Gas control or supply varied, shifted or supplemented during cycle
12	..Compacting	48	..Gas cycle for pre-treatment of receiver or contents material
13	MODIFICATION OF FILLING CYCLE IN STARTING AND STOPPING	49	..Plural or diverse gassing and/or filling cycles
14	SIPHON BOTTLE CHARGING ARRANGEMENTS	50	..Shifted to vent or fill pipe
15	.For receiver with diverse filling opening	51	.Gas condition control in housing for receiver
16	.With plural heads, stations or materials	52	.With separate storage of gas displaced from receiver
17	.With gas capsule supporting or manipulating means	53	..With receiver vent to measuring trap
18	FILLING OR REFILLING OF DISPENSERS	54	.With plural diverse passages for gas to receiver or head
19	.With cutter or punch for gas pressure cartridge	55	..Vent to drain fill pipe
20	.Aerosols	56	..Three or more
20.5	.Coating-implement-type receiver	57	..Receiver vented to atmosphere before separation (e.g., snift)
21	.By operation of means causing or controlling dispensing	58	...Constant bleed
22	..Removable dispenser is supply container closure	59	.Filling with exhausting the receiver
23	...Expansible chamber dispenser	60	..Receiver coupling comprises movable pump element
24	....Resilient wall	61	..Vacuum cut-off before filling
25	..Expansible chamber of fluid pressure applying or controlling means	62	.With lateral travel of registering head and receiver
26	...Dispenser carried expansible chamber pump	63	.Gas treatment
27	...Container with follower	64	..Of filled receiver
28	...Container mounted jet pump	65	EVACUATION APPARATUS
29	.Closure type with manually controlled vent		
31	CAPILLARY TYPE		
32	BATTERY GRID PASTING		
33	.Separate sources applied to opposite sides		
34	CENTRIFUGAL FILLING		
35	PLURAL CONNECTED RECEIVERS FILLED BY SERIAL FLOW		

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COACTING MEANS

66	.With filling with gas	103	.Separate stations for a single receiver
67	FLUENT CHARGE IMPELLED OR FLUID CURRENT CONVEYED INTO RECEIVER	104	.Selectively utilized sources
68	.Valve bag type	105	.With common discharge
69	WITH MATERIAL TREATMENT	106	..Dumping or draining
70	.With fluid contact (e.g., jetting)	107	..With mingling in or successive path through trap
71	.Compacting	108	SCOOP TYPE FILLER WITH ASSOCIATED RECEIVER
72	..Agitation of head and receiver	109	.Receiver within scoop or inserter
73	..Compacting material in receiver	110	ABSORPTION AND/OR IMMERSION
74	...Agitation	111	.With handling means for receiver
75	....Of suspended receiver	112	.Receiver secured to supply closure
76	.....Valve bag chair	113	RECEIVER FILLED THROUGH BOTTOM OR WHILE INVERTED
77	....With distortion of or impact on receiver side walls	114	WITH MANIPULATION OF FLEXIBLE OR COLLAPSIBLE RECEIVER OR SUPPLY
78	....Agitating means associated with receiver conveyer	115	DRIP PREVENTION BY FLOW REVERSING AND/OR OVERFILL REMOVAL
79	.....Rotary conveyer	116	.By means reversing direction of flow
80	...In filled receiver	117	..Expanding chamber in disengaged head
81	.With contraction of trap to form charge	118	..By tilting receiver and adjoined filler
82	.Heating or cooling	119	..Interconnected supply valve cut-off and vacuum control
83	WITH TESTING OR WEIGHING RECEIVER CONTENT	120	..Siphonic return to supply
84	CONVERTIBLE	121	.Separate removal station
85	WITH SOIL REMOVING, COATING, LUBRICATING, STERILIZING AND/OR DRYING	122	..With subsequent filling
86	.Drip collection	123	..Combined displacement receptacle and vacuum means
87	..Collector shiftable to non-use position	124	..Receiver tilting or inverting means
88	..Collector associated with receiver support	125	..Wiping, scraping or spatulating means (e.g., trimming)
89	.With cleaning, coating or drying means	126	.Simultaneous filling and removing
90	..Nozzle cleaner	127	..Double acting or plural pumps
91	..Treatment by fluids	128	DRIBBLE OR REDUCED FLOW AT END OF CYCLE
92	...Pre-treatment of receiver	129	WITH CONVEYING MEANS TO SUPPLY SUCCESSIVE RECEIVERS
93	.Suction hoods and off-takes	130	.Sampler type
94	WITH SIGNAL, INDICATOR, RECORDER, INSPECTION MEANS OR EXHIBITOR	131	.Continuous flow type
95	.Level or pressure in receiver	132	..Receivers with overlapping flanges or apertured shields
96	..Hose nozzle or faucet mounted	133	..Receiver carrier forms moving support for supply
97	WITH GUARD OR SCREEN FOR OPERATOR COMBINED	134	..With spaced receivers and redirected flow
98	PLURAL DIVERSE FILLING LINES		
99	PLURAL MATERIALS, MATERIAL SUPPLIES OR CHARGES IN A RECEIVER		
100			
101	.Lateral travel of registering head and receiver		
102	.Plural charges from the same source		

135	.With lateral motion of registering head and receiver	169	..Plural receiver lines to or from single
136	..Bodily lifted or swinging siphon filling means	170	..Lateral shift at filling station between parallel receiver paths
137	..Laterally reciprocating head or trap	171	..With change in receiver orientation
138	..Interrupted or irregular cycle	172	..With lifting or lowering means for receiver for filling
139	...Automatic control by contents material	173	..With receiver dispenser
140	...No can - no fill	174	...Cup-type dispenser
141	....Power control by receiver	175	...Reciprocating discharge means and receiver guideway
142	.....Cam track switching	176	..Conveyer with relatively movable receiver discharge means
143	.....Vertical axis trigger	177	.Nozzle, guide or conveyer adjustable to receiver size
144	..Rotary set of heads	178	.Successive groups or non-sequential filling of a receiver series
145	...Common vertical axis for conveyer	179	..From a single uniform line of receivers
146	....With vertically reciprocating plunger or valve piston for each head	180	.Continuously moving conveyer with receiver stop
147	....With cam or abutment operated valve or head	181	.With head, manifold or supply lowering means
148	....With lift means for receiver	182	..Separate movable or removable sleeve or funnel supply terminal
149	.....With additional cushion or yielding lift	183	.With interconnected contents discharge means
150	.....Cam lift or lowered movement	184	..With predetermined number of cycles
151	....Manually placed receivers	185	...Single group filled by rows
152	....Adjustable to receiver size	186	..Plural lines
153	.Automatic control of filling cycle by contents material	187	..With contents gripping or penetrating discharge means
154	.Receiver with asymmetrical or flap closed inlet	188	..With valve period adjustment
155	.Safety-stop or non-operating interlock between supply and conveyers	189	..By contact with conveyer projection
156	.Fill triggered by receiver	190	..Ratchet drive for conveyer
157	..Individual receiver controls the filling cycle therefor	191	..Cam and gear drives
158	...Charge-forming prevention or charge disposal	192	AUTOMATIC CONTROL OF FLOW CUTOFF OR DIVERSION
159	...Power control by receiver	193	.Responsive to relative recession of supply means and receiver engaging means
160	....Servo-system	194	..Ejection or release of filled receiver
161	....Clutch control	195	..Discharge assistant control by filled receiver
162	...Power derived from lateral motion of receiver	196	.Control by test receiver or chamber or by filled preceding receiver
163	.Horizontal axis conveyer		
164	.Receiver supported on side during filling		
165	.With relatively movable receiver grip or centering means		
166	..Bag type receiver		
167	.With variable rate of receiver travel in cycle		
168	.Conveyer with additional receiver conveying or manipulating means		

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197	.In gas filled receivers	233	..Track on receiver supporting means
198	.Level or overflow responsive		
199	..Funnel type closed by float	234	PLURAL FILLING MEANS
200	...Valve latched in open position	235	..Adjustable lateral spacing of heads or receivers
201	...Normally open with closed position holding means	236	..Diverse flow manifold
202	...Plural series valves	237	..For plural receivers simultaneously filled
203	...Valve stem accessible at top of funnel	238	..Supply apportioned prior to delivery
204	....Single valve and float stem		
205	...Pivoted valve	239	...Tilting tray or trough means
206	..Manually initiated valve with both manual and level cut-off controls	240	...Grid or cellular insert type divider
207	...With receiver positioned interlock	241	...Inverted for discharge to receivers
208	...With nozzle dislodgment valve trip means	242	..With discharge means
209	...Manual control disabler or disconnect	243	...With means for selective operation
210	...Separate controls for plural series liquid flow line valves	244	...Manifold or divider
211	....Self-opening valve	245	....Displacement type
212	.....Float initiates closing control	246	..With receiver ejecting and/or accommodating means
213	.....Float arm operated valve	247	..Aids to manual filling
214	.....Pressure initiated closing control	248	..Alternating
215	.....Liquid back pressure completes closing	249	WITH CHARGE FORMING MEANS CONTRACTING TRANSVERSELY TO FLOW PATH
216	....Float operated valve	250	WITH MEANS TO MOVE SUPPLY MEANS AND/OR RECEIVER TO, FROM OR DURING FLOW RELATION
217	...Diverse controls for single valve	251	..Relatively receding discharge assistant and receiver engaging means
218	....Valve latched open	252	..With external form for receiver
219	.....Electromagnetic trip	253	..With lift or power drive for receiver support
220	.....Float controlled trip means		
221	.....With sensitivity or level adjustment	254	..Receiver support bias varied with position of support
222	.....Adjustable receiver engaging or coacting means	255	..With feeder and additional flow modifier or retarder at foot of fill tube
223	.....With spring means biasing valve to close	256	..Continuous feeding during filling (e.g., rotary auger)
224	.....Reciprocating valve	257	...Receding receiver support or engaging means
225	.....Air displacement trip means	258	..Axially reciprocating discharge assistant
226	.....By response to receiver pressure increase	259	...Rotatable reciprocating discharge assistant
227	..External initiator as second diverse control	260	...Reciprocating filling tube type discharge assistant
228	...Series flow line valves	261	...With synchronized intermittent supply (e.g., check valve)
229	....Float control cut-off	262	...With receding receiver support
230	WITH SIPHON FLOW CONTROL BY EQUALIZED LEVELS		
231	PORTABLE SYSTEMS OR TRACK MOUNTED SUPPLY MEANS		
232	..Track mounted		

263	.Relatively receding filling tube and receiver engaging means	292	..Valve operator interconnected with receiver inlet engaging means
264	..With flow stop or severer at foot of fill tube	293	...Plural valves operated
265	.With means to separate filled receiver and internal form	294	...With mechanical or lost motion connection
266	.With adjustable movable component	295	...Concentric open vent
267	.Unitary receiver support and flow controller	296	..Biased coaxial valve stem and nozzle
268	..Rotary or oscillating	297	.Funnel type
269	.With clamp for receiver interconnected with movable head or lift	298	..Concentric vent forms valve stem
270	.Both supply means and receiver support having movement	299	..Concentric external vent
271	.Swinging support for receiver	300	..Vent extends along wall to top
272	..Tilting type support for separating receiver from filling head	301	.With valve
273	..Inversion of receiver	302	..Plural valved passages
274	...Receiver with gravity operated valve	303	...Float operated vent cut-off
275	.Receiver lift or lower for filling	304	...Swingable nozzle operated liquid supply valve
276	..With interconnected external means to control discharge	305	...Rigidly interconnected or intergral valves
277	..Fluid operated lift	306	...Gravity seated inversion opened valve
278	..Yielding lift	307	..With trap or chamber in vent passage
279	.With movable support for hose connected head or supply	308	..Air vent to supply cut-off by liquid in receiver
280	.Scraping or leveling by lateral relative movement of supply means and receiver	309	.With air inlet to liquid supply
281	.With means for manipulating a filled receiver for separation from head or support	310	.Passage formed by head and receiver spacing means
282	..From an external form	311 R	FILLING MEANS WITH RECEIVER OR RECEIVER COACTING MEANS
283	.With movement of receiver in horizontal plane	312	.Extensible or expansible inserted coupler or centering means for receiver
284	.Movably mounted supply	313	.Flexible or collapsible receiver
285	MULTIPLE PASSAGE FILLING MEANS FOR DIVERSE MATERIALS OR FLOWS	314	..With bag or liner securing means
286	.With baffle, spreader, displacer, drip ring, filter or screen	315	...Valve bag clamp and/or chair
287	.With gas expanded seal	316	...With inserted or external form for bag
288	.Adjustable outlet element controls level	317	...With flow controlling means
289	.Vent laterally shiftable	318	.Filling by retracting receiver or cartridge
290	.With flue or vent externally returning to supply	319	.Manually coupled and inverted
291	.With valve operated by receiver engaging means	320	..With discharge assistant, trap or valve
		321	...Receiver operated supply discharge means or controller
		322	...Combined supply closure and trap
		323	.Siphon type
		324	.Continuous flow or overflow type supply

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325	.Receiver with plural compartments or openings (e.g., vents)	357	..Receiver applied to plunger-type follower
326	..With means to cap or close an opening	358	..Scoop or drawer type
327	...Receiver open at both ends	359	..Receiver weight operated discharge means
328	.Filling means or support provides handle for receiver	360	..Actuator juxtaposed outlet
329	.With puncturing connecting means	361	...Servo-system
330	..Mounted on receiver	362	...Relatively movable actuator
331	.Funnel type	363	.Filling supply supported by receiver
332	..With connector, guide or support for separable supply	364	..Dumping or draining type
333	..Supply or flow path not concentric with receiver inlet	365	..Material guide
334	...Laterally extending spout	366	...Supply container hand manipulated
335	..Valves open when funnel rests on receiver	367	.Adjustable contact area or plural interchangeable or selectively usable coupling means or flow paths
336	..Valve closed by lifting on funnel handle	368	.Adjustable gauge collar, displacement member or seal
337	..Flexible, collapsible or folding	369	.With receiver support, guide means, or shield
338	...Stored in or on receiver	370	..Guide or shield
339	..Anti-swirl, anti-splash, cover or shield	371	...Reciprocating guard or guide
340	..With additional support	372	...Receiver neck or inlet rim engaging support
341	...With nonsystem support	373	...For movement of receiver laterally of supply outlet
342	....Nonuse	374	..Fill tube extending to or near bottom of receiver
343	.....Supported on supply container	375	..With support for removable supply container
344	..With valve actuator or extended stem	376	..With adjustable support for supply
345	...Relatively movable	377	..Receiver swingably supported or supported by bail
346	.Interlocked discharge means, support and/or coupling	378	..Plural interchangeable or selective or adjustable support for receiver
347	..With coupling means responsive to material flow	379	..Nonuse position or cover
348	.Supply means carried receiver flow control opening means	380	...Receiver supported by supply container
349	..Coupling controls receiver inlet flow	381	....Closure type
350	...For inlet with externally engaged flap or closure member	382	.Flexible hose terminal with receiver engaging means
351	.Receiver actuated discharge means	383	.With receiver and supply securing means
352	..Movable supply or head	384	..Rotatable collar or sleeve
353	..Receiver coupling telescopes flow path elements	385	..Telescoping jaws
354	...Mechanical or lost motion connection	386	..Fixed flange on supply means for engagement of receiver
355	...Connection external to tube or tube sections	311 A	.Drip prevention
356	...Control by contact at bottom of receiver	387	FILLING HEAD SHIFTABLY OR SEPARABLY CONNECTED TO SUPPLY

- 388 .Flexible or collapsible coupling
section
- 389 ..Hand-held head
- 390 INSERTED OR EXTERNAL FORM OR
PROTECTOR
- 391 MATERIAL GUIDES OR SUPPLY WITH
RECEIVER SUPPORTS (I.E., AIDS
TO MANUAL FILLING)
- 392 MISCELLANEOUS (E.G., FILLING
HEADS)

FOREIGN ART COLLECTIONS

FOR CLASS-RELATED FOREIGN DOCUMENTS

DIGESTS

- DIG 1 MAGNETIC
- DIG 2 FLUIDIC FLOW CONTROL VALVES

